

# HOT SWAPPABLE ELECTRONIC MODULE WITH NON-STAGGERED CONNECTORS

## ABSTRACT

- 5 A hot swappable electronic component or module is provided that has non-staggered connectors (i.e., of equal length or depth), but which is configured to ensure that power, signal or other connectors are electrically coupled in a desired order. The electronic component includes a switch (e.g., a field effect transistor) having a gate coupled to a ground line that is configured for coupling to a ground
- 10 reference of the interface with which the component is mated. A source of the switch is coupled to a voltage input (e.g., power, Vcc) and a drain is coupled to an internal component load or circuit. Until the gate is coupled to ground, the switch remains open, thereby preventing spurious signals or feedback of damaging current to the interface. When the gate is coupled to ground, the switch is closed
- 15 and the internal load or circuit is energized.